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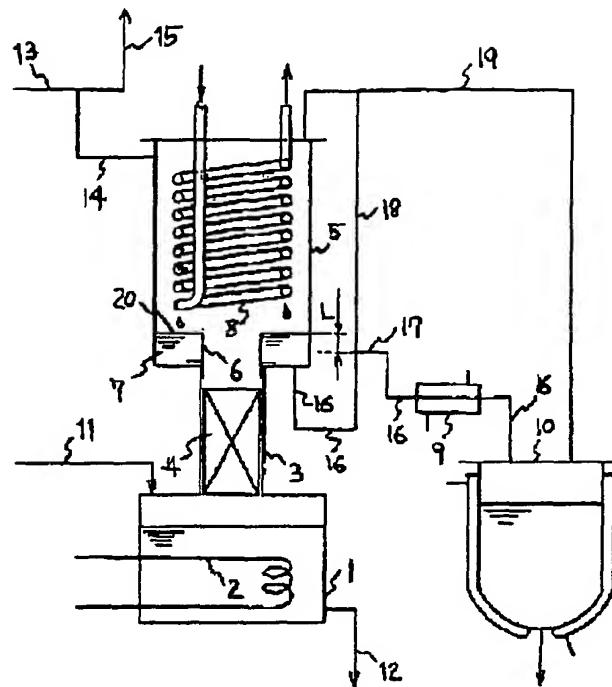
APPLICATION DATE : 23-08-93
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APPLICANT : MITSUBISHI CHEM CORP;

INVENTOR : IZUMI MINEO;

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TITLE : DISTILLATION DEVICE AND REFINING OF ORGANIC SOLVENT USING THE DEVICE



ABSTRACT : PURPOSE: To inhibit the elution of metal and the generation of particles and maintain high reliability over a long term by using only a static liquid contact part under a system to allow the overflow of a part of a sump liquid in a condenser into a tower part by an overflow weir, to obtain a reflux liquid.

CONSTITUTION: A refined vapor is condensed by a cooling condensation coil 8 in a condenser, then a condensate drops into a condensate sump 7 at the inner bottom of the condenser 5 and is accumulated there. In addition, a part of the sump liquid overflows into a tower part 3 from an overflow weir 6 to become a reflux liquid. The remaining part of the sump liquid is guided out of a vessel by a condensate delivery line 16, and is sent into a refined liquid storage tank 10 after being cooled by a distillate cooler 9 as a distillate. In this case, it is possible to adjust the ratio of the amount of a distillate which is actually extracted to an area outside a distillation tower and the amount of a reflux liquid which is circulated back into the distillation tower by setting the relative positional relationship between the level of the top end part 17 of the condensate delivery line 16 and the gas and liquid interfacial level 20 of the condensate sump 7 in a vertical direction.

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